# BTS - LEHD Pilot Study

Bureau of Transportation Statistics
LEHD Staff
Wende Mix, Westat

# Project Goals

- Develop a prototype model of local, state, and federal cooperation to produce annual Home to Work flow relationships
- Complementary products to ACS and decennial journey to work data
- Demonstration of model over 1 year period.

## Description

- Illinois and Florida are participants in this research.
- Enhancing ES-202 data for better establishment address geocodes.
  - Accuracy requirements establishments geocoded by Census to roof top or block face level.

FOR MORE INFO...

**LEHD Staff** 

## Description

- Geocoded residential information linked to establishments
- Create work flow summaries at a TAZ-like level.
  - Actual summary level to be determined based on confidentiality requirements.

FOR MORE INFO...

**LEHD Staff** 

# LEHD TAZ (TIGER 2000) Counties State Boundary 30 0 30 60 Mes

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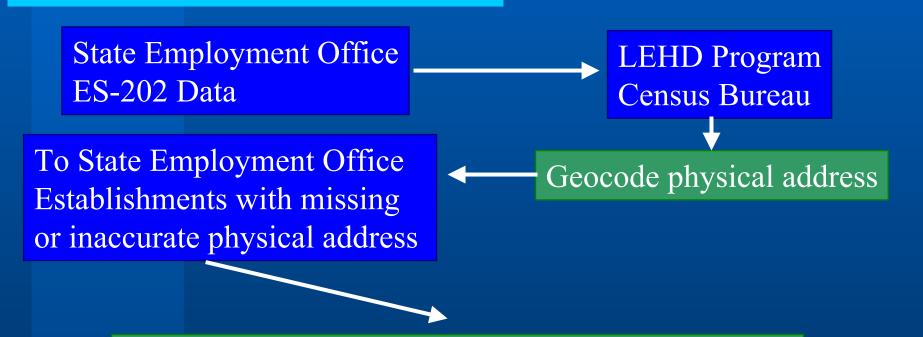
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R E R



## Work and Data Flows



Process data using in-house proprietary information. Send successful results to Census for geocoding. Distribute unsuccessful data to local partners.

### Work and Data Flows

Local Partners - MPO and State DOT District Staff

State Employment Office Merge data and resubmit to Census for Geocoding Process data using inhouse proprietary information and local knowledge/resources. Verify sample of known physical addresses

Geocode remaining establishment and residential data.

Link data and build matrices

LEHD Program
Census Bureau

Cleaned ES-202 data and flow tables to State Employment
Office and Local Partners

#### Current Status

- Slightly behind schedule
  - Coordination between federal, state and local partners achieved
  - Both states currently have data to work with
- Start-up slowed by confidentiality agreements, contract issues, and holiday season.

#### Issues

- Preparation of data for geocoding and submittal to states
- Approach to prioritize and assign establishment records for cleaning
  - Data quality, Size, SIC, Type
- Development of TAZ-like areas
  - Base geography, confidentiality, model development
- Start-up versus maintenance costs

## Future Research

- Cost/benefit analysis of process
- Modeling variance of cell estimates.
- Link with ACS and decennial journey to work data to model transportation variables
- New models and analysis
  - Seasonality of labor force when and where part-time or seasonal workers impact the transportation system
  - Multiple job workers potential work to work flows
  - \_ ....

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